

Fig. 3

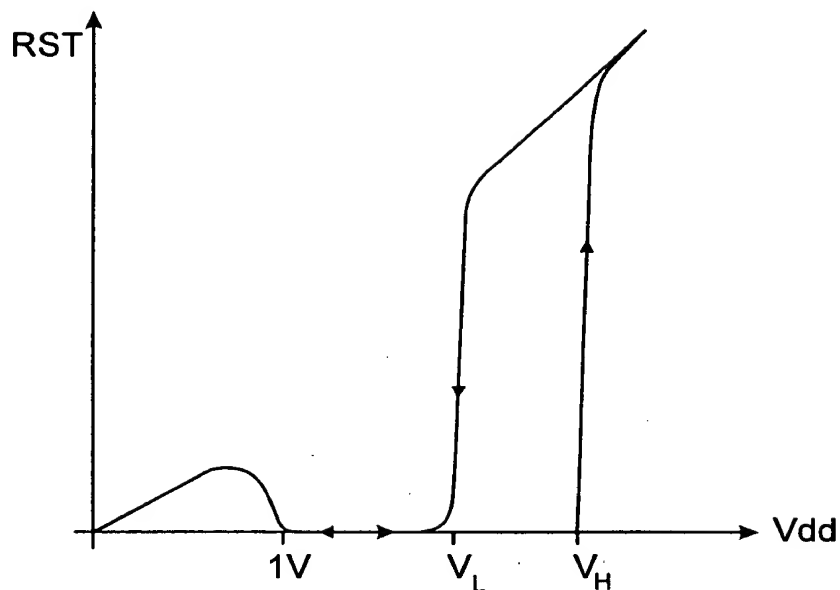


Fig. 4

MICROPROCESSOR		ANTENNA INTERFACE	
CONTACT MODE	CONTACTLESS MODE	CONTACT MODE	CONTACTLESS MODE
$V_{dd} = \text{[square wave]}$ $RST = \text{[square wave]}$ $CLK = \text{[square wave]}$ $IO_2 = 0 \Rightarrow \text{C.M}$ DATA via IO_1 C.M { data trans- action ISO 7816	$V_{dd} = \text{[sawtooth wave]}$ $RST = \text{[square wave]}$ $CLK = \text{[square wave]}$ $IO_2 = 1 \Rightarrow \text{C / L}$ DATA via IO_2 C/L { data trans- action CONTACTLESS PROTOCOL	$V_{dd} = \text{[square wave]}$ $RST, CLK =$ TRISTATE E / M FIELD OFF $\Rightarrow \text{C.M. MODE}$	$V_{dd} = \text{[sawtooth wave]}$ $RST = \text{[square wave]}$ $CLK = \text{[square wave]}$ E / M FIELD ON $\Rightarrow \text{C/L. MODE}$ DATA TRANS- ACTION via IO_2

Fig. 5



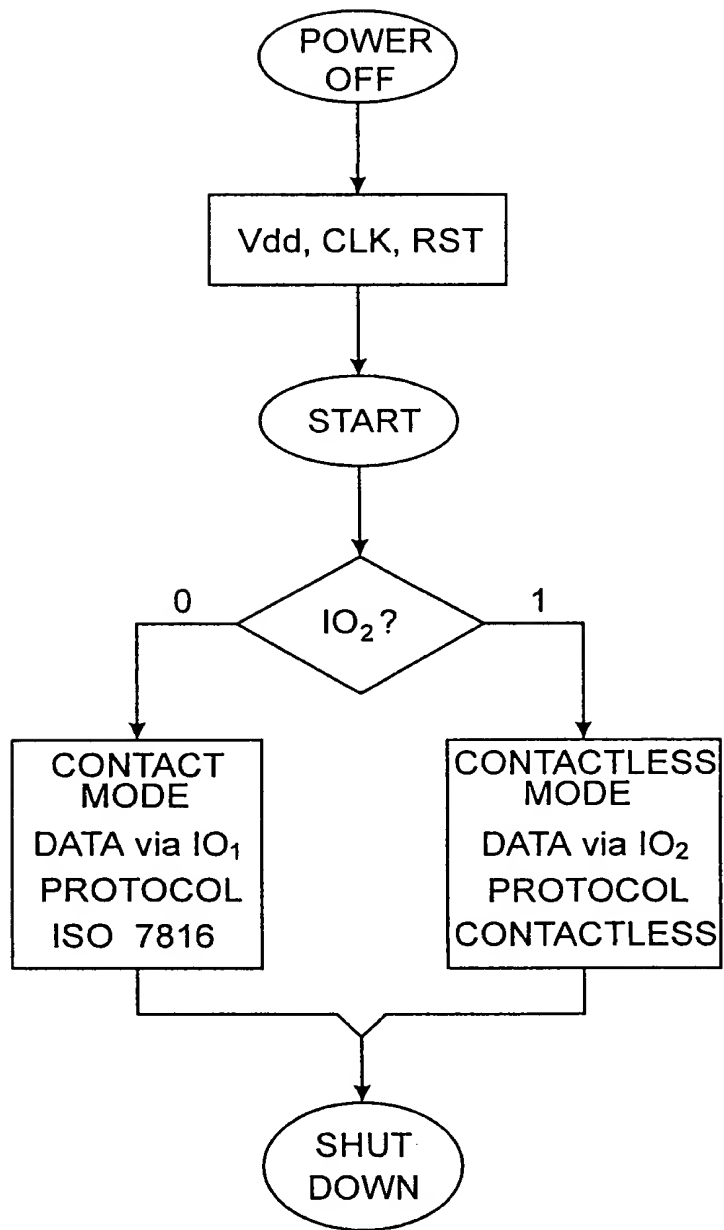


Fig. 6



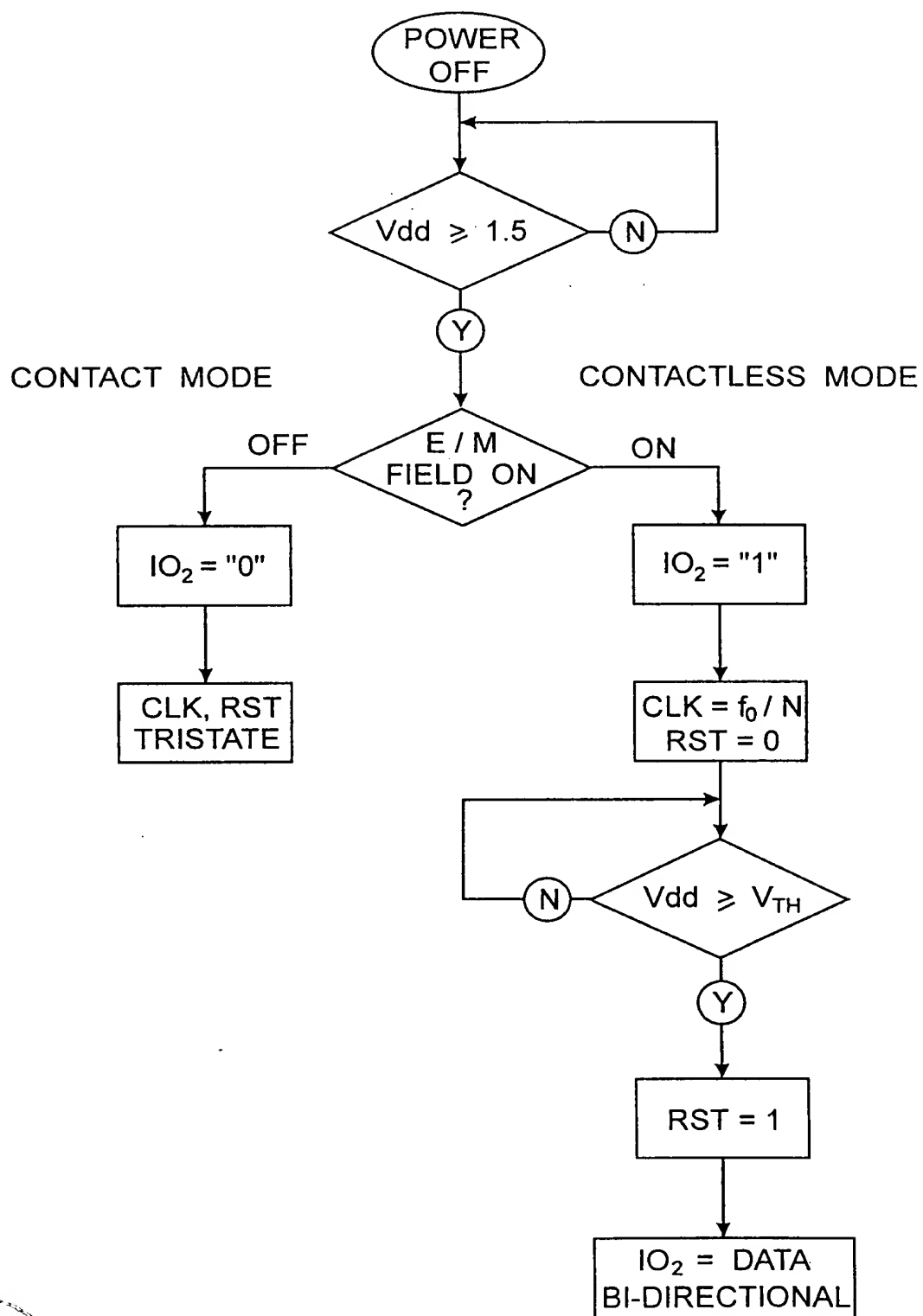
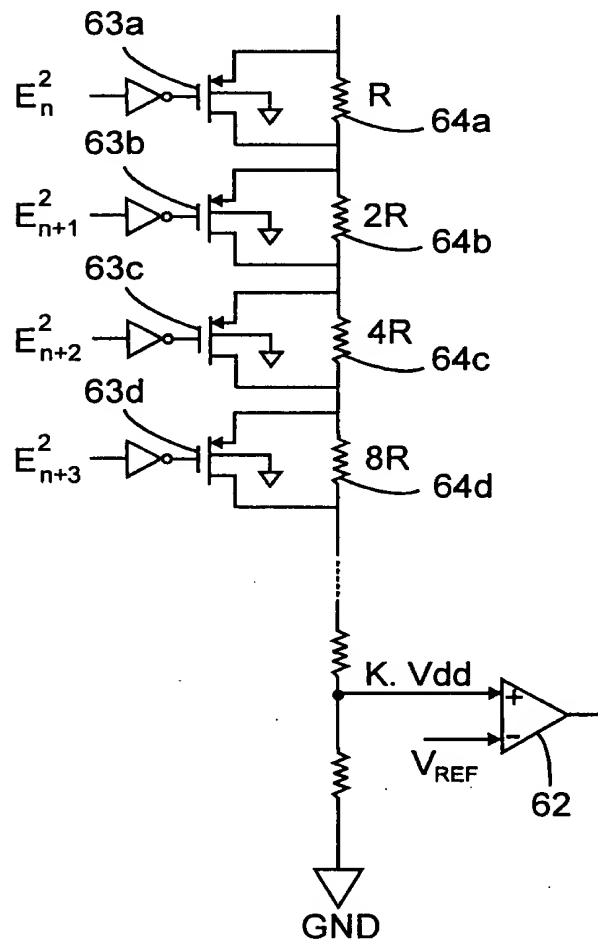
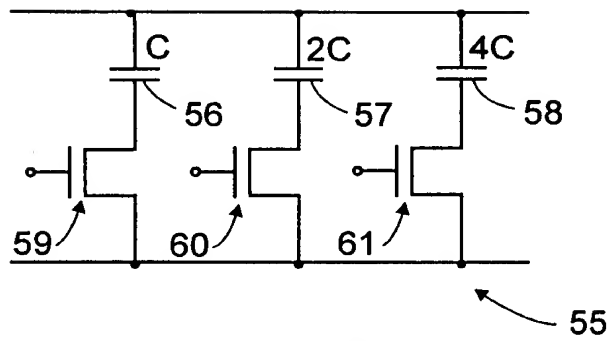
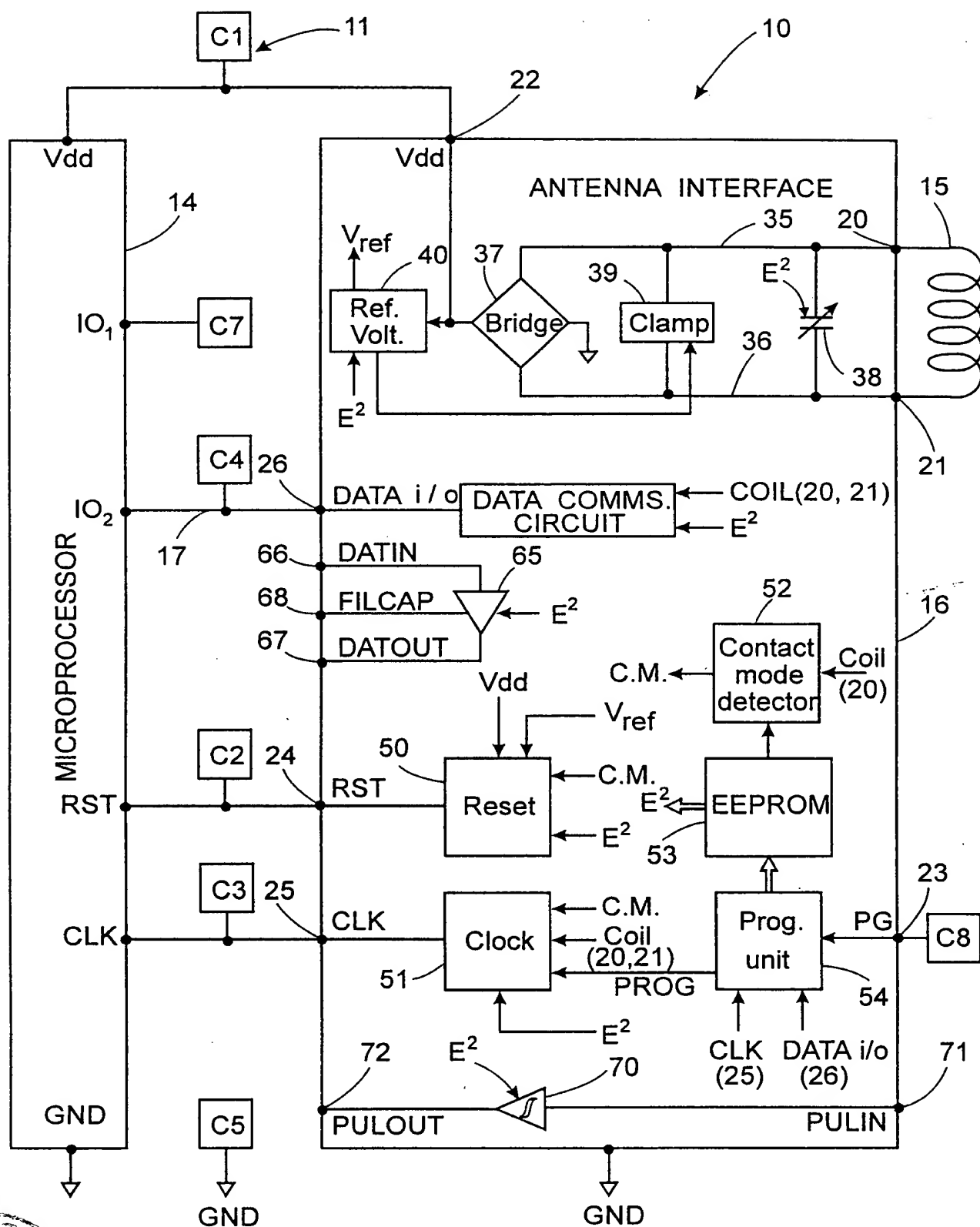


Fig.7





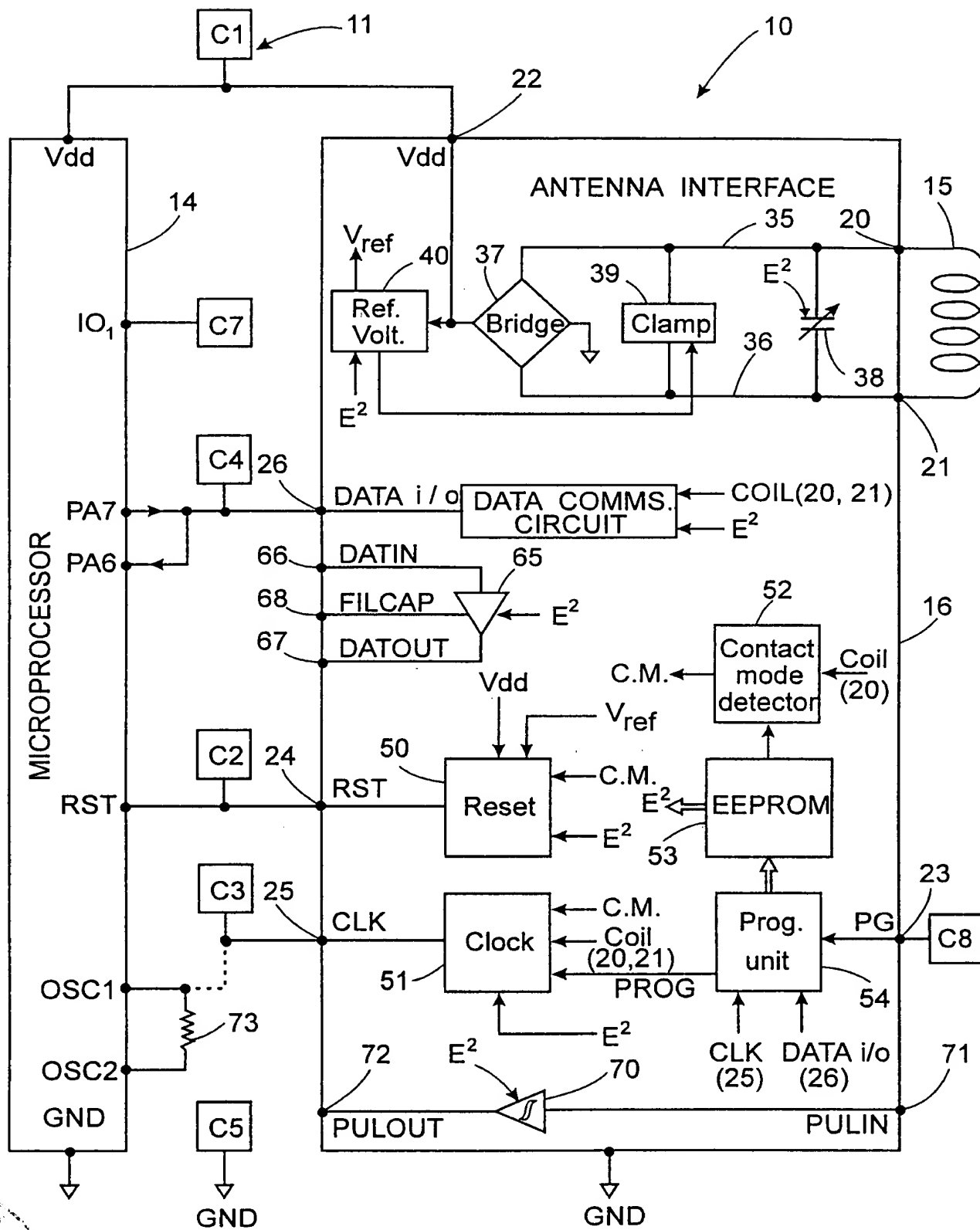


Fig. 10

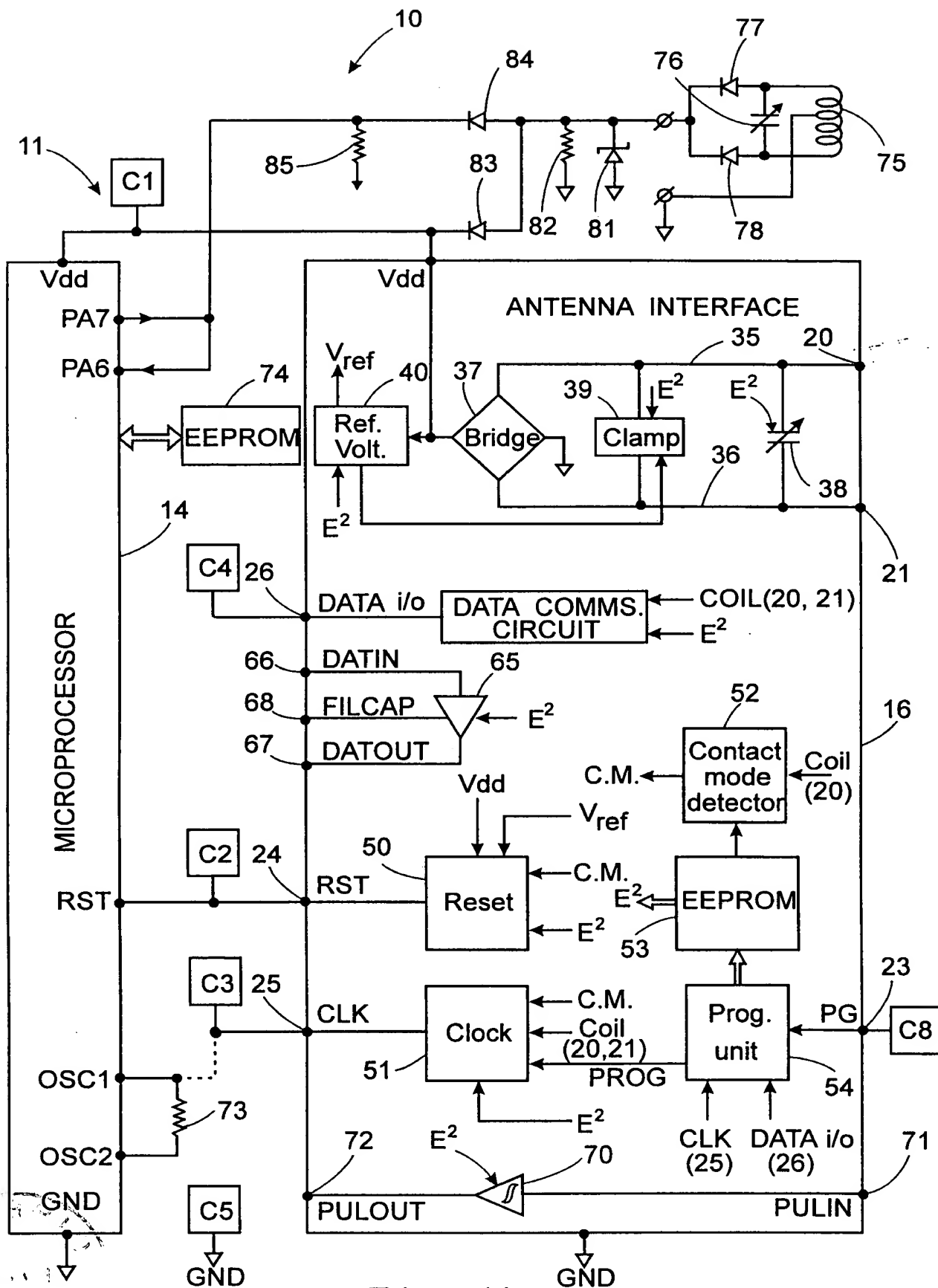


Fig. 11

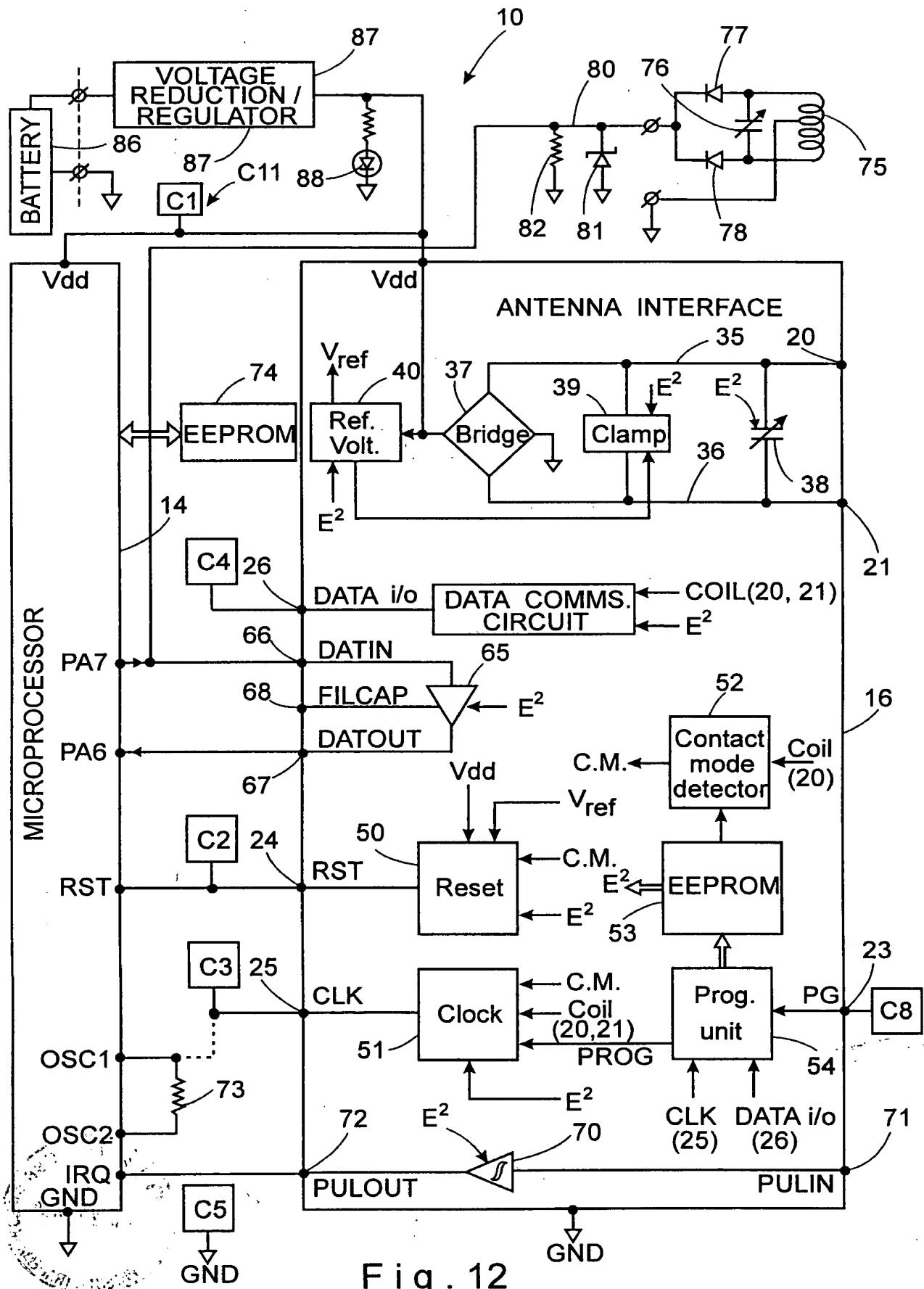


Fig. 12